P.T.O.

B.Tech. - VIEP - COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

Term-End Examination

Time: 3 hours

BICS-015

June, 2017

BICS-015: PRINCIPLES OF PROGRAMMING LANGUAGES

Maximum Marks: 70

Note: Attempt any seven questions. All questions carry equal marks. (a) What do you understand by procedure 1. oriented and object oriented programming 3 languages? Write and explain at least seven features of (b) an object oriented programming language. 7 example Explain with an 2. (a) allocation of multidimensional arrays' in a 5 computer. (b) Write and explain various 'data types' in 'Ada'. ale os mire oparmas i mecca 5

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3.	(a)	Explain the 'polymorphism' feature of C++ with an example.	5
	(b)	What is 'friend function' in C++ language? Explain with suitable example.	5
4.	(a)	Explain 'memory allocation' using pointers in 'C' language. Compare the same using arrays in 'C' language.	6
•	(b)	Describe 'parameter passing' techniques in 'C' language with an example.	4
5.	(0)		
υ.	(a)	Explain 'Multiple Inheritance' in C++ with an example.	5
	(b)	What do you understand by classes? Explain in brief all types of classes with example.	5
6.	(a)	Define and explain various control structures in PROLOG.	5
	(b)	Write and explain at least five features of LISP.	5
7.	(a)	Write and explain the four divisions of COBOL program with an example.	8
	(b)	Write the syntax of 'PERFORM' statement of COBOL language with an example.	2

8.	(a)	Explain how JAVA is a platform	
		independent language.	2
	(b)	Write and explain the object oriented	
		feature of JAVA.	8
•	TT7 *4	1 to the set of the following:	
9.	Writ	e short notes on the following:	
	(a)	4 th Generation Programming Languages	. 3
	(b)	Iteration versus Recursion	3
	(c)	Private versus Protected classes with one	
		example each	4